

FIGURE 1A

927	936	945	954	963	972
GCA CCA CGT GGA GAA CGT TCA ATC GCT GGG ATT AGC TAC GGT CAA GTG CGT GGC					
A P R G E R S I A G I S Y G Q V R G					
981	990	999	1008	1017	1026
ACA GCT ATT GAA CAA AGG ACT TCC AGC GAC CAC ACA GAC CAC ACC TAC CTG TCA					
T A I E Q R T S S D H T D H T Y L S					
1035	1044	1053	1062	1071	1080
TCT ACT TTC ACC AAA GGA GAA CGG GCG TTA CTG TCC ATT ACA GAT AAC AGT TCA					
S T F T K G E R A L L S I T D N S S					
1089	1098	1107	1116	1125	1134
TCC TCA GAC ATT GTG GAG AGC TCA ACT TCT TAT ATT AAA ATC TCA AAC TCT TCA					
S S D I V E S S T S Y I K I S N S S					
1143	1152	1161	1170	1179	1188
CAT TCA GAG TAT TCC TCC TTT TCT CAT GCT CAG ACT GAG AGA AGT AAC ATC TCA					
H S E Y S S F S H A Q T E R S N I S					
1197	1206	1215	1224	1233	1242
TCC TAT GAC GGG GAA TAT GCT CAG CCT TCT ACT GAG TCG CCA GTT CTG CAT ACA					
S Y D G G E Y A Q P S T E S P V L H T					

FIGURE 1C

1251	1260	1269	1278	1287	1296
TCC AAC CTT	CCG TCC TAC ACA	CCC ACC ATT AAT ATG	CCG AAC ACT	TCG GTT GTT	
S N L	P S Y T	P T I N M P	N T S V		
1305	1314	1323	1332	1341	1350
CTG GAC ACT	GAT GCT GAG TTT	GTT AGT GAC TCC TCC	TCC TCT TCC TCC	TCC TCC TCC	
L D T	D A E F V S D S	S S S S	S S S S	S S S S	
1359	1368	1377	1386	1395	1404
TCC TCT TCT	TCT TCA GGG CCT CCT	TTC CCT CTG CCC TCT GTG	TCA CAA TCC		
S S S	S S G P P L P L	P S V S Q S			
1413	1422	1431	1440	1449	1458
CAC CAT TTA	TTT TCA TCA ATT TTA	CCA TCA ACC AGG GCC	TCT GTG CAT CTA		
H H L	F S S I L P S T R A	S V H L L			
1467	1476	1485	1494	1503	1512
AAG TCT ACC	TCT GAT GCA TCC ACA	CCA TGG TCT TCC TCA	CCA TCA CCT TTA	CCA	
K S T	S D A S T P W S S	S S P S P L P			
1521	1530	1539	1548	1557	1566
GTA TCC TTA	ACG ACA TCT ACA	TCT GCC CCA CTT	TCT GTG TCA CAA	ACA ACC TTG	
V S L	T T S T S A P L S V	S S Q T T L			

FIGURE 1D

1575	1584	1593	1602	1611	1620
CCA CAG TCA TCT TCT ACC CCT GTC CTG CCC AGG GCA AGG GAG ACT CCT GTG ACT					
P Q S S S T P V L P R A R E T P V T					
1629	1638	1647	1656	1665	1674
TCA TTT CAG ACA TCA ACA ATG ACA TCA TTC ATG ACA ATG CTC CAT AGT AGT CAA					
S F Q T S T M T S F M T M L H S S Q					
1683	1692	1701	1710	1719	1728
ACT GCA GAC CTT AAG AGC CAG AGC ACC CCA CAC CAA GAG AAA GTC ATT ACA GAA					
T A D L K S Q S T P H Q E K V I T E					
1737	1746	1755	1764	1773	1782
TCA AAG TCA CCA AGC CTG GTG TCT CTG CCC ACA GAG TCC ACC AAA GCT GTA ACA					
S K S P S L S L V S L P T E S T K A V T					
1791	1800	1809	1818	1827	1836
ACA AAC TCT CCT TTG CCT CCA TCC TTA ACA GAG TCC TCC ACA GAG CAA ACC CTT					
T N S P L P P S L T E S S T E Q T L					
1845	1854	1863	1872	1881	1890
CCA GCC ACA AGC ACC AAC TTA GCA CAA ATG TCT CCA ACT TTC ACA ACT ACC ATT					
P A T S T N L A Q M S P T F T T I					

FIGURE 1E

1899	1908	1917	1926	1935	1944
CTG AAG ACC	TCT CAG CCT	CTT ATG ACC	ACT CCT GGC	ACC CTG TCA	AGC ACA GCA
---	---	---	---	---	---
L K T	S Q P	L M T	T P G	T L S	S T A
---	---	---	---	---	---
1953	1962	1971	1980	1989	1998
TCT CTG GTC	ACT GGC CCT	ATA GCC GTA	CAG ACT ACA	GCT GGA AAA	CAG CTC TCG
---	---	---	---	---	---
S L V	T G P	I A V	Q T T	A G K	Q L S
---	---	---	---	---	---
2007	2016	2025	2034	2043	2052
CTG ACC CAT	CCT GAA ATA	CTA GTT CCT	CAA ATC TCA	ACA GAA GGT	GGC ATC AGC
---	---	---	---	---	---
L T H	P E I	L V P	Q I S	T E G	G I S
---	---	---	---	---	---
2061	2070	2079	2088	2097	2106
ACA GAA AGG	AAC CGA GTG	ATT GTG GAT	GCT ACC ACT	GGA TTG ATC	CCT TTG ACC
---	---	---	---	---	---
T E R	N R V	I V D	A T T	G L I	P L T
---	---	---	---	---	---
2115	2124	2133	2142	2151	2160
AGT GTA CCC	ACA TCA GCA	AAA GAA ATG	ACC ACA AAG	CTT GGC GTT	ACA GCA GAG
---	---	---	---	---	---
S V P	T S A	K E M	T T K	L G V	T A E
---	---	---	---	---	---
2169	2178	2187	2196	2205	2214
TAC AGC CCA	GCT TCA CGT	TCC CTC GGA	ACA TCT CCT	TCT CCC CAA	ACC ACA GTT
---	---	---	---	---	---
Y S P	A S R	S L G	T S P	S P Q	T T V
---	---	---	---	---	---

FIGURE 1F

2223	2232	2241	2250	2259	2268
GTT TCC ACG GCT GAA GAC TTG GCT CCC AAA TCT GCC ACC TTT GCT GTT CAG AGC					
V S T A E D L A P K S A T F A V Q S					
2277	2286	2295	2304	2313	2322
AGC ACA CAG TCA CCA ACA ACA CTG TCC TCT TCA GCC TCA GTC AAC AGC TGT GCT					
S T Q S P T T L S S S A S V N S C A					
2331	2340	2349	2358	2367	2376
GTG AAC CCT TGT CTT CAC AAT GGC GAA TGC GTC GCA GAC AAC ACC AGC CGT GGC					
V N P C L H N G E C V A D N T S R G					
2385	2394	2403	2412	2421	2430
TAC CAC TGC AGG TGC CCG CCT TCC TGG CAA GGG GAT GAT TGC AGT GTG GAT GTG					
Y H C R C P S W Q G D D C S V D V					
2439	2448	2457	2466	2475	2484
AAT GAG TGC CTG TCG AAC CCC TGC CCA TCC ACA GCC ACG TGC AAC AAT ACT CAG					
N E C L S N P C P S S T A T C N N T Q					
2493	2502	2511	2520	2529	2538
GGA TCC TTT ATC TGC AAA TGC CCG GTT GGG TAC CAG TTG GAA AAA GGG ATA TGC					
G S F I C K C P V G Y Q L E K G I C					

FIGURE 1G

2547	2556	2565	2574	2583	2592
AAT TTG GTT AGA ACC TTC GTG ACA GAG TTT AAA TTA AAG AGA ACT TTT CTT AAT					
N L V R T F V T E F K L K R T F L N					
2601	2610	2619	2628	2637	2646
ACA ACT GTG GAA AAA CAT TCA GAC CTA CAA GAA GTT GAA AAT GAG ATC ACC AAA					
T T V E K H S D L Q E V E N E I T K					
2655	2664	2673	2682	2691	2700
ACG TTA AAT ATG TGT TTT TCA GCG TTA CCT AGT TAC ATC CGA TCT ACA GTT CAC					
T L N M C F S A L P S Y I R S T V H					
2709	2718	2727	2736	2745	2754
GCC TCT AGG GAG TCC AAC GCG GTG GTG ATC TCA CTG CAA ACA ACC TTT TCC CTG					
A S R E S N A V V I S L Q T T F S L					
2763	2772	2781	2790	2799	2808
GCC TCC AAT GTG ACG CTA TTT GAC CTG GCT GAT AGG ATG CAG AAA TGT GTC AAC					
A S N V T L F D L A D R M Q K C V N					
2817	2826	2835	2844	2853	2862
TCC TGC AAG TCC TCT GCT GAG GTC TGC CAG CTC TTG GGA TCT CAG AGG CGG ATC					
S C K S S A E V C Q Q L L G S Q R I					

FIGURE 1H

2871	2880	2889	2898	2907	2916
TTT AGA GCG GGC AGC TTG TGC AAG CGG AAG AGT CCC GAA TGT GAC AAA GAC ACC					
---	---	---	---	---	---
F R A G S L C K R K S P E C D K D T					
2925	2934	2943	2952	2961	2970
TCC ATC TGC ACT GAC CTG GAC GGC GTT GCC CTG TGC CAG TGC AAG TCG GGA TAC					
---	---	---	---	---	---
S I C T D L D G V A L C Q C K S G Y					
2979	2988	2997	3006	3015	3024
TTT CAG TTC AAC AAG ATG GAC CAC TCC TGC CGA GCA TGT GAA GAT GGA TAT AGG					
---	---	---	---	---	---
F Q F N K M D H S C R A C E D G Y R					
3033	3042	3051	3060	3069	3078
CTT GAA AAT GAA ACC TGC ATG AGT TGC CCA TTT GGC CTT GGT GGT CTC AAC TGT					
---	---	---	---	---	---
L E N E T C C M S C P F G L G L N C					
3087	3096	3105	3114	3123	3132
GGA AAC CCC TAT CAG CTT ATC ACT GTG GTG ATC GCA GCC GCG GGA GGT GGG CTC					
---	---	---	---	---	---
G N P Y Q L I T V V I A A A G G G L					
3141	3150	3159	3168	3177	3186
CTG CTC ATC CTA GGC ATC GCA CTG ATT GTT ACC TGT TGC AGA AAG AAT AAA AAT					
---	---	---	---	---	---
L L I L G I A L I V T C C R K N K N					

FIGURE 11

3195	GAC	ATA	AGC	AAA	CTC	ATC	TTC	AAA	AGT	GGA	GAT	TTC	CAA	ATG	TCC	CCA	TAT	GCT	3240
	D	I	S	K	L	I	F	K	S	G	D	F	Q	M	S	P	Y	A	
3249	GAA	TAC	CCC	AAA	AAT	CCT	CGC	TCA	CAA	GAA	TGG	GGC	CGA	GAA	GCT	ATT	GAA	ATG	3294
	E	Y	P	K	N	P	R	S	Q	E	W	G	R	E	A	I	E	M	
3303	CAT	GAG	AAT	GGA	AGT	ACC	AAA	AAC	CTC	CTC	CAG	ATG	ACG	GAT	GTG	TAC	TAC	TCG	3348
	H	E	N	G	S	T	K	N	L	L	Q	M	T	D	V	Y	Y	S	
3357	CCT	ACA	AGT	GTA	AGG	AAT	CCA	GAA	CTT	GAA	CGA	AAC	GGA	CTC	TAC	CCG	GCC	TAC	3402
	P	T	S	V	R	N	P	E	L	E	R	N	G	L	Y	P	A	Y	
3411	ACT	GGA	CTG	CCA	GGA	TCA	CGG	CAT	TCT	TGC	ATT	TTC	CCC	GGA	CAG	TAT	AAC	CCG	3456
	T	G	L	P	G	S	R	H	S	C	I	F	P	G	Q	Y	N	P	
3465	TCT	TTC	ATC	AGT	GAT	GAA	AGC	AGA	AGA	AGA	GAC	TAC	TTT	TAA	GTC	CAG	GAG	AGA	3510
	S	F	I	S	D	E	S	R	R	R	D	Y	F						

FIGURE 1J

3519 3528 3537 3546 3555 3564
 GAG GGA CTC ATT GCT CTG AGC CAG TCA CCT GGG ACC TCT GCT CAG AGG ACC GCA

 3573 3582 3591 3600 3609 3618
 CCA GGA GGC TGC GCC CAG GAT TTG TCG GGA GCC ACC CTG AGT GGC AAG CAG GAA

 3627 3636 3645 3654 3663 3672
 GAG GGA CAG GCA TGC GGG GCG TGA CCA CAG TGG AGG AGA CAG GTG GAT GTG GAA

 3681 3690 3699 3708 3717 3726
 CCA CAG GCT GCT CAT TCA GCA CCT TTG TTG TTA CTG TGA ACG TGA ATG TGG GCC

 3735 3744 3753 3762 3771 3780
 AGT ATC AAG AGA GTC TCT CTG AGT GAC TGC ACC ATG GCA CTG GCA CCA GGG CGA

 3789 3798 3807 3816 3825 3834
 CTA TTA GCC AGG GCA GAC CAC TAG ACT TCA GTG CAG GGA CCT GGT TTT CCC TTC

 3843 3852 3861 3870 3879 3888
 GTT TGC ACT TTA GTA AAT TGG GTG GGA GGT TTC CTT TTG GAT CTG TTT TGA GAC

 3897 3906 3915 3924 3933 3942
 TGT TCC AGA AAG AAG GCT TCC TTT CCC GAG ACA CTT CCA TAG GCA GCA ATT TGG

 3951 3960 3969 3978 3987 3996
 TGA TTC ATT TGC AGC AAA ATA CTG GCT TGT TAA TTA TTT TCC TGC CCA GCG CCT

 4005 4014 4023 4032 4041 4050
 GCG TGC TAA ACA ACA GAT GAG GAT GAG CGT ACC ACT GAA GTC TGA AGA TGT CGC

FIGURE 1K

4059	4068	4077	4086	4095	4104
CAT TGA ACG GAC AGT GTT TTC ATA TGT TTC TAG GTT GTC TTA TGC TAC AGT TTC					
4113	4122	4131	4140	4149	4158
CAA GCC AGC CCC CAC AGT GAG GAA ATG TGT GAG GCA CCG CAC ACA ACT GCA ATG					
4167	4176	4185	4194	4203	4212
TGT TTT TTA AGT CAA GGT GAC ACA TGT ATT TAA GAT TTT TTT TTA AAA TCT CTT					
4221	4230	4239	4248	4257	4266
TGC AGT TAA ATC TCA CTT TTT CAA ACA AGC CTG GAT CAG GGC AAA ACA ACT TAT					
4275	4284	4293	4302	4311	4320
ATT TGG TTT TAG CTG GAG GCT CAG CAG GCA GAT TGC AGG CAG GGC ACT TTT					
4329	4338	4347	4356	4365	4374
CAT CCA TGA GGG CCC AGC CTG GGG CCT GGG ACT CTG ATC ACC ATT GTG GAG GCC					
4383	4392	4401	4410	4419	4428
AGA GGC AGC TGC GTA TGG AGG AGA AAT GTC AAA CTG AAC GCA GGT TTC ACC ACT					
4437	4446	4455	4464	4473	4482
CTA GGA AAG CAG CTT GTT GAG CCC CTG CAG CTG GAT GTG GTT AGA GGC ATG GGC					
4491	4500	4509	4518	4527	4536
TGA ATA GGC AGG TTA GAT TTC CTG CAT CAA CAG TGC TTT GGC AAG CTG TGT GGA					
4545	4554	4563	4572	4581	4590
TTC CTG AGG AAG AAC AGG GAG CCG AGA TGG AGC CAC ACA TGA GTT TGC TCA CCG					

FIGURE 1L

4599	4608	4617	4626	4635	4644
GCT ACT GCA GCA CTT TGT ACC CAG AAT CTC ATG TCC ACA AAC CCC ATG TAA ACT					
4653	4662	4671	4680	4689	4698
TTC AAC CAC TCA AAG CTG TTT ATT CGG CTG AAG AAA TAA CTT TTT CTC ACC					
4707	4716	4725	4734	4743	4752
CAG TCA TTT GTA CCT CTT CAT ATG GCT GTG TCG CAC CCT CCA GAA ACG TGG TTA					
4761	4770	4779	4788	4797	4806
TAC TTC CAG TCA GTG TGG GAG AAC TGA AGA CTT CCG GTT GGT CGA GGA ACT GAG					
4815	4824	4833	4842	4851	4860
GGT TGA CCT TCG GGA AGG AAG TTC CAC TCA TCT TAT TTA TTA TGC CTG TGA TGT					
4869	4878	4887	4896	4905	4914
GGG TCC TGC CAG GGA GAC ATC CAG TAC TCG GTG TCT TTA ATT GCC ACC TGG GGA					
4923	4932	4941	4950	4959	4968
ACT GTG TTT ATT GGC CTT CTT TGG GGC ATC CTG GTT TTG GAT GAA GTG AGG GGA					
4977	4986	4995	5004	5013	5022
ATA CAG AGG TAA AAG AAT TGT CTC CAC CCT GAA GCG GGG AGT CCC GCT TCA CAT					
5031	5040	5049	5058	5067	5076
TTC TGG AAA TGG TGC AGC CAC TGG GGA CAG TTC TGC CCC GGG CAT GGT TGT TTC					
5085	5094	5103	5112	5121	5130
TTC AAG GTC CTC TAA ATA TAA TCC CTA TTC TTA CAT AAT CCT TGG CCC TGA TGG					

FIGURE 1M

5139	5148	5157	5166	5175	5184
TTT TAA GCA AGA ACT CCT GTG TCC CAT GGT CTC CAC CAC TCA CCA TCA CCC TGC					
5193	5202	5211	5220	5229	5238
TGT AGC AAG AGT CCT AGT CAG GGG AGG TGC ATT TTA GTA GTT AAA TTG CAC TTA					
5247	5256	5265	5274	5283	5292
TCC ATG AGA TAA ATA AAA GGA GAA CTG TTT TTA TCA GTG GAG GCT AAC CTA AAA					
5301	5310	5319	5328	5337	5346
TTT CAA AGT GTC GCC TTT TTG AAA TCT TGG GCC TCT CTC TCT GTA GAA CCA ATG					
5355	5364	5373	5382	5391	5400
GCC CTT TGT GGC TCA CGG CCT CGC ACC TAA CTG GAG AGT TCT GAG CTC CTG CAG					
5409	5418	5427	5436	5445	5454
CTC ACC TGA GCC CAC AGA CTA GGC TTC TTG GCT CCT TCC GCA GCA TGC CTG CTC					
5463	5472	5481	5490	5499	5508
ACC CCC AGA ACC CGC AGC TGT GGG AAG AGC CAT GTA GGG AGG CTA TTC CCA GGC					
5517	5526	5535	5544	5553	5562
ATA CAC TTC CAC TGC CTT CAG CTG ACG TCA CAG CTG ACA AAT CAT CTC CTC TAT					
5571	5580	5589	5598	5607	5616
CGG AGC CAG AAG ACT TCA GCT CCA CAA AAT GAA GTG TTC TGT CCT GAA AAC ATT					
5625	5634	5643	5652	5661	5670
CTT GGG AAG AAT CCC AAC ATC GAG AAA ACG GTG TCC TGT GAG TTC CAA CAA TGC					

FIGURE 1N

5679	5688	5697	5706	5715	5724
TTC TTG TTC ATG GGT TTC TTC CGT ATG GAG TGG ATT AAG AGT GTT TTA TTT TGT					
5733	5742	5751	5760	5769	5778
TGT TCT AAC TGA GAA AAA AAG GAG GCA CCC ACA AGG TTG AGG TCA CAC AGT CTC					
5787	5796	5805	5814	5823	5832
CAC AGT TTC CAG GAG GCG TTT GGG GGT GGG GAA GGC ACC TCC AGA GCA TGA GGC					
5841	5850	5859	5868	5877	5886
TCT AAG GGG ACA TGA GTA AAG CAT GTC TGT GAC CCA GTG AGG AAG GGA GAG GCC					
5895	5904	5913	5922	5931	5940
AGC TGC ACT CCT GCA CGG GGT TCC TAG CTG CAG AAG GGT CCC GCC TAG GCC GAG					
5949	5958	5967	5976	5985	5994
GGG AAA CAC CTG ATA GCA GAA GAG GCC TGG ATG CAC ACC TGG CAC GCC GAG GCT					
6003	6012	6021	6030	6039	6048
CTC CGC CCA GAC ACA GTG CTC CAT GTC AGC CCC TGC ACC TGG GGT GTG TGA TTC					
6057	6066	6075	6084	6093	6102
ACG TGC ACA GAT GCC ACA ATC CTG CAC CAA TAT CCC ACA GAT GGG GGA AGG TGA					
6111	6120	6129	6138	6147	6156
GAG GAA GGG GCA AGT GAT GTG TAA CTG CTC AAG AGA TGC TTA AAC CTC CAT AGA					
6165	6174	6183	6192	6201	6210
GAG GAG CCG GGC GCA GGG GCA TCT GTG TGT CCC GTC ACA CAC TGC AGC AGG GAA					

FIGURE 10

6219	6228	6237	6246	6255	6264
GGG TGG CTG GCT GGC TCC CTG GCA TCA GTG GTT TGG TTT AAG CTC CAG AGG GTC					
6273	6282	6291	6300	6309	6318
TTA TTG CCA TTG TCT TTT CCT CTG CCC CTT GAG CCA GCC TAA GGC CCT GGA GTC					
6327	6336	6345	6354	6363	6372
TGT TTC TTT AGG CGG ATG AAC TGA CAT GCT CCT ACC ATG ACC AGG CTC TGG GCA					
6381	6390	6399	6408	6417	6426
AGG CTC CTC ACA GTA TCC TTG AGA GGT GGG CAT GGA AGT GCC CAT TTC TCA GGT					
6435	6444	6453	6462	6471	6480
ACA GAA ACC TTC AGA GAG GAT AAA TAG CTT GCC CTG TAG AAG CAG GAC TGA AAC					
6489	6498	6507	6516	6525	6534
CCT TGT CCG CCT GAC TCC CCC AGC TAC TCT GCC CAC TGT AGC CCC CTG CCT TAC					
6543	6552	6561	6570	6579	6588
TGT CCT GGC ACA CCC CTC ACC ATC CTG TAT ACC TTA AAT ATC AAA GAG GGC AAG					
6597	6606	6615	6624	6633	6642
AGA GAA AGG GCT TTA AAG ATA AGT TAT TTT TTT AAG GAA CCT TAA TAT TAT TTT					
6651	6660	6669	6678	6687	6696
TAA GAA GTA ACC AAA TTA GTG ACG TGA AAT GCA AAA AAA AAA AAA AAT GCT					
6705	6714	6723	6732	6741	6750
GAC TAC CCT TTT GAA AAT GTG CTT TCA GAT TGT TTT TTA TAT GTA ATT CTT AGA					

FIGURE 1P

6759 6768 6777 6786 6795 6804
CAC TTG TCA TTA AGA AAA TAG TGG CTG GCT TGT GCT CAG CAA GAA GCA CAC TGG

6813 6822 6831 6840 6849 6858
CAC GTG GCT TTG GTA TAG GAA GTG GAA GGC AAG GAC CTG GGT TTC TGA CAA GTG

6867 6876 6885 6894 6903 6912
CCG TCA GAC TTA CCC TTC CAT CTG GAG AGC TGG TGG CTT TGG TCC CCT GGG TAG

6921 6930 6939 6948
GGC CAT GGG TTC CCC ACT ATT ACT GGG AAG CTA TAG GGT G 3'

FIGURE 1Q

1	M	S	Q	T	E	T	V	S	R	S	V	A	P	M	R	G	G	E	I	T	A	H	W	L	L	T	N	S	T	T	182514CD1	
1	-	I	T	I	T	E	T	S	H	S	T	P	P	S	Y	T	T	S	I	T	T	E	T	P	S	H	S	T	P	g2853301		
1	P	I	S	V	Q	P	S	S	S	S	S	P	P	T	-	-	-	-	T	S	T	T	S	V	Q	S	S	S	S	g915208		
31	S	A	D	V	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	182514CD1		
30	S	Y	T	T	S	I	T	T	E	T	P	S	H	S	T	P	S	F	T	S	S	I	T	T	P	T	E	T	T	S	g2853301	
27	S	V	P	I	P	S	T	T	S	V	Q	P	S	S	G	S	A	P	T	T	S	A	T	S	V	Q	T	S	S	g915208		
36	G	S	S	A	S	Y	P	E	G	V	N	A	S	V	L	T	Q	F	S	D	S	T	V	Q	S	G	G	S	-	-	182514CD1	
60	H	S	T	P	S	F	T	S	S	I	R	T	T	E	T	T	S	Y	S	T	P	S	F	T	S	S	N	T	I	T	g2853301	
57	S	S	S	P	P	I	S	S	T	I	S	V	Q	T	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
64	-	H	T	A	L	G	D	R	S	Y	S	E	S	S	S	T	S	S	E	S	L	N	S	S	A	P	R	G	E	182514CD1		
90	E	T	T	S	H	S	T	P	S	Y	I	T	S	S	I	T	T	E	T	P	S	S	T	P	S	F	S	S	S	g2853301		
74	-	-	-	-	-	-	-	-	-	-	-	-	S	S	V	P	T	T	S	T	S	V	Q	P	S	S	S	S	A	g915208		
93	R	S	I	A	G	I	S	Y	G	Q	V	R	G	-	-	T	A	I	E	Q	R	T	S	S	D	H	T	D	H	T	182514CD1	
120	I	T	T	E	T	T	S	H	S	T	P	G	G	F	T	S	S	I	I	T	T	E	T	S	H	T	P	S	P	S	g2853301	
93	P	T	T	R	A	T	S	V	Q	S	S	S	S	S	S	A	P	I	S	S	T	T	S	V	Q	-	-	-	-	P	S	g915208
121	Y	L	S	S	T	F	T	K	G	E	R	A	L	L	S	-	-	-	-	-	I	T	D	N	S	S	S	S	D	182514CD1		
150	F	T	S	S	I	T	T	T	E	T	T	S	H	D	T	P	S	F	T	S	S	I	T	S	E	T	P	S	H	g2853301		
120	S	S	G	S	V	P	T	T	S	A	T	S	V	Q	S	S	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	g915208	

FIGURE 2A

145	I	V	E	S	S	T	S	Y	I	K	I	S	N	S	S	H	S	E	S	S	F	S	H	A	Q	T	E	R	S	182514CD1	
180	S	T	P	S	S	T	S	L	I	T	T	K	T	S	H	S	T	P	S	F	T	S	I	T	T	T	T	E	g2853301		
150	P	S	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	P	P	I	S	S	T	V	S	V	Q	P	g915208	
175	N	I	S	S	Y	D	G	E	Y	A	Q	P	S	T	E	S	P	V	L	H	T	S	N	L	P	S	Y	T	P	T	182514CD1
210	T	T	S	H	S	A	R	S	F	T	S	S	I	T	T	E	T	-	T	S	H	N	T	R	S	F	T	S	S	g2853301	
167	S	S	S	S	A	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
205	I	N	M	P	N	T	S	V	V	L	D	T	D	A	E	F	V	S	D	S	S	S	S	S	S	S	S	S	S	182514CD1	
239	I	T	T	E	T	N	S	-	-	-	H	S	T	T	S	F	T	S	S	I	T	T	E	T	T	S	H	S	T	g2853301	
174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	T	S	A	T	S	V	Q	P	S	S	S	S	g915208	
235	S	S	G	P	P	L	P	-	-	-	-	-	-	-	-	-	-	-	-	L	P	S	V	S	Q	S	H	L	F	182514CD1	
267	P	S	F	S	S	I	T	T	E	T	P	L	H	S	T	P	G	L	P	S	W	V	T	T	T	K	T	T	T	g2853301	
188	P	P	I	S	S	T	V	S	V	Q	T	S	S	S	S	S	V	P	-	-	-	-	-	-	-	T	T	S	T	g915208	
254	S	S	I	L	P	S	T	R	A	S	V	H	L	L	K	S	T	S	D	A	S	T	P	W	S	S	S	P	S	P	182514CD1
297	S	H	I	T	P	G	L	T	S	S	I	T	T	E	T	T	S	H	S	T	P	G	F	T	S	S	I	T	T	g2853301	
210	T	S	V	Q	P	P	S	S	S	S	S	P	T	T	S	A	T	S	-	-	-	-	-	-	V	R	S	S	S	g915208	
284	L	P	V	S	L	T	T	S	T	S	A	P	L	S	V	S	Q	T	T	L	P	Q	S	S	T	P	V	L	P	182514CD1	
327	T	F	T	S	E	S	T	P	S	L	S	S	S	T	I	Y	S	T	V	S	T	S	T	A	I	T	S	H	g2853301		
234	S	S	T	P	I	P	S	T	T	S	V	Q	P	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	S	g915208	

FIGURE 2B

314	R	A	R	E	T	P	V	T	S	F	Q	T	S	T	M	T	S	F	M	T	M	L	H	S	S	Q	T	A	D	L	182514CD1
357	F	T	T	S	E	T	A	V	T	P	T	P	V	T	P	S	S	L	S	T	D	I	P	T	T	S	L	R	T	L	g2853301
264	S	S	S	S	T	P	I	P	S	T	T	S	V	Q	P	S	S	-	S	S	A	P	T	T	S	A	T	S	V	g915208	
344	K	S	Q	S	T	P	H	Q	E	K	V	I	T	E	S	K	S	P	S	L	-	-	V	S	L	P	T	E	S	182514CD1	
387	T	P	S	S	V	G	T	S	T	S	L	T	T	T	T	D	F	P	S	I	P	T	D	I	S	T	L	P	T	R	g2853301
293	Q	P	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	P	P	I	S	S	T	I	S	V	Q	P	S	g915208	
371	T	K	A	V	T	T	N	S	P	L	P	P	S	L	T	E	S	S	T	E	Q	T	L	P	A	T	S	T	N	L	182514CD1
417	T	H	I	I	S	S	S	P	S	I	Q	S	T	E	T	S	S	L	V	G	T	T	S	P	T	M	S	T	V	R	g2853301
313	S	-	-	-	S	S	S	P	T	T	S	T	T	S	V	Q	P	S	S	G	S	A	P	T	T	S	A	T	S	g915208	
401	A	Q	M	S	P	T	-	-	-	-	-	-	-	F	T	T	I	L	K	T	S	Q	P	L	M	T	T	P	G	182514CD1	
447	M	T	L	R	I	T	E	N	T	P	I	S	S	F	S	T	S	I	V	I	P	E	T	P	T	Q	T	P	P	g2853301	
340	V	Q	P	S	S	S	S	P	P	I	S	S	-	-	T	I	S	V	Q	P	P	S	S	S	S	S	P	T	g915208		
424	T	L	S	S	T	A	S	L	V	T	G	P	I	A	V	Q	T	T	-	A	G	K	Q	L	S	L	T	H	P	E	182514CD1
477	V	L	T	S	A	T	G	T	Q	T	S	P	A	P	T	T	V	T	F	G	S	T	D	S	S	T	S	T	L	H	g2853301
367	-	-	T	S	T	S	V	Q	P	S	S	G	S	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
453	I	L	V	P	Q	I	S	T	E	G	G	I	S	T	E	R	N	R	V	I	V	D	A	T	T	G	L	I	P	L	182514CD1
507	T	L	T	P	S	T	A	L	S	T	I	V	S	T	S	Q	V	P	I	P	S	T	H	S	S	T	L	Q	T	T	g2853301
381	-	-	-	P	T	T	S	A	T	S	V	Q	P	S	S	S	S	V	P	T	T	S	A	T	S	V	R	S	S	g915208	

FIGURE 2C

483	T	S	V	P	T	S	A	K	E	M	T	T	K	L	G	V	T	A	E	Y	S	P	A	S	R	S	L	G	T	S	182514CD1
537	P	S	T	P	S	-	-	-	-	L	Q	T	S	L	T	S	T	S	E	F	T	T	E	S	F	T	R	G	S	T	g2853301
408	S	S	S	S	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
513	P	S	P	Q	T	T	V	S	T	A	E	D	L	A	P	K	S	A	T	F	A	V	Q	S	S	T	Q	S	P	182514CD1	
563	S	T	N	A	I	L	T	S	F	S	T	I	W	S	S	T	P	T	I	I	M	S	S	S	P	S	S	A	S	g2853301	
413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	I	P	T	T	T	S	V	Q	P	S	S	S	S	-	g915208	
543	T	L	S	S	A	S	V	N	S	C	A	V	N	P	C	L	H	N	G	E	C	V	A	D	N	T	S	R	182514CD1		
593	I	T	P	V	F	S	T	I	H	S	V	P	S	P	Y	I	F	S	T	E	N	V	G	S	A	S	I	T	g2853301		
428	V	P	T	S	A	T	S	V	Q	T	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	
573	G	Y	H	C	-	R	C	P	P	S	W	Q	G	D	D	C	S	V	D	V	N	E	C	L	S	N	-	-	-	182514CD1	
623	G	F	P	S	L	S	S	A	T	T	S	T	S	S	T	S	S	L	T	A	L	T	E	I	T	P	F	g2853301			
444	-	-	T	P	I	P	S	T	S	V	Q	P	S	S	S	S	S	A	P	T	T	S	A	T	S	V	Q	P	-	g915208	
598	-	-	-	-	-	-	-	-	-	P	C	P	S	T	A	T	C	N	N	T	Q	G	S	F	I	C	K	C	P	V	182514CD1
653	S	Y	I	S	L	P	S	T	T	P	C	P	G	T	I	T	I	V	P	A	S	P	T	D	P	C	-	V	g2853301		
471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	P	P	I	S	S	T	-	I	-	g915208	
619	G	Y	Q	L	E	K	G	I	C	N	L	V	R	T	F	V	T	E	F	K	L	K	R	T	F	L	N	-	-	T	182514CD1
682	E	M	D	P	S	T	E	A	T	S	P	P	T	T	P	L	T	V	F	P	F	T	T	E	M	V	T	C	P	T	g2853301
483	S	V	Q	P	S	S	S	S	S	P	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208	

FIGURE 2D

647	T	V	E	K	H	S	D	L	Q	E	V	E	N	E	I	T	K	T	L	N	M	C	F	S	A	L	P	S	Y	I	182514CD1
712	S	I	S	I	Q	T	L	L	T	Y	M	D	T	S	S	M	M	P	E	S	E	S	S	I	S	P	N	A	S	g2853301	
496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	T	T	S	V	Q	P	S	S	g915208	
677	R	S	T	V	H	A	S	R	E	S	N	A	V	I	S	-	-	L	Q	T	T	F	S	L	A	S	N	V	T	182514CD1	
742	S	S	T	G	T	V	P	T	N	T	V	F	T	S	T	R	L	P	T	S	E	T	W	L	S	N	S	S	g2853301		
506	G	S	A	P	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208		
705	L	F	D	L	A	D	R	M	Q	K	C	V	N	-	S	C	K	S	S	A	E	V	C	Q	L	L	G	S	Q	R	182514CD1
772	V	I	P	L	P	L	P	G	V	S	T	I	P	L	T	M	K	P	S	S	S	L	P	T	I	L	R	T	S	S	g2853301
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	S	A	g915208
734	R	I	F	R	A	G	S	L	C	K	R	K	S	P	E	C	D	K	D	T	S	I	C	T	D	L	D	G	V	A	182514CD1
802	K	S	T	H	P	S	P	P	T	R	T	S	E	T	P	V	A	T	T	Q	T	P	T	T	L	T	S	R	R	g2853301	
514	T	S	V	Q	P	S	S	-	-	-	-	-	S	S	P	P	I	S	S	-	-	-	-	-	-	-	-	-	-	-	g915208
764	L	C	Q	C	K	S	G	Y	F	Q	F	N	K	M	D	H	S	C	R	A	C	E	D	G	Y	R	L	E	N	E	182514CD1
832	T	T	R	I	T	S	Q	M	T	T	Q	S	T	L	T	T	A	G	T	C	D	N	G	G	T	W	E	Q	G	g2853301	
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208
794	T	C	M	S	C	P	F	G	L	G	G	L	N	C	G	N	P	Y	Q	L	I	T	V	V	I	A	A	A	G	-	182514CD1
862	Q	C	-	A	C	L	P	G	F	S	G	D	R	C	-	-	-	-	Q	L	Q	T	R	C	Q	N	G	G	Q	W	g2853301
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g915208

FIGURE 2E

